



WATER FORWARD

INTEGRATED WATER RESOURCE PLAN

Austin Integrated Water Resource Planning Community Task Force

Packet Index

December 13, 2016

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Austin Integrated Water Resource Planning Community Task Force
December 13, 2016 2:00 – 4.00 p.m.
Glen Bell Service Center, Rm 134
Tom Medders Training Rm,
3907 S. Industrial Drive
Austin, Texas 78744

For more information go to:
[Austin Integrated Water Resource Planning Community Task Force](#)

AGENDA

Voting Members:

Sharlene Leurig - Chair	Marianne Dwight	Sarah Richards
Jennifer Walker – Vice Chair	Diane Kennedy	Lauren Ross
Todd Bartee	Perry Lorenz	Kate Zerrenner
Clint Dawson	Bill Moriarty	

Ex Officio Non-Voting Members:

Austin Water: Greg Meszaros
Austin Energy: Kathleen Garrett
Austin Resource Recovery: Sam Angoori
Neighborhood Housing and Community Development: Rebecca Giello
Office of Innovation: Kerry O'Connor
Office of Sustainability: Lucia Athens
Parks and Recreation: Sara Hensley
Watershed Protection: Mike Personett

1. CALL TO ORDER – December 13, 2016, 2:00 p.m.

2. CITIZEN COMMUNICATION

The first 10 speakers signed up prior to the meeting being called to order will each be allowed a three-minute allotment to address their concerns regarding items not posted on the agenda.

3. APPROVAL OF MEETING MINUTES

- a. Approval of the meeting minutes from the December 6, 2016 Task Force meetings (5 minutes)

4. STAFF BRIEFINGS, PRESENTATIONS, AND OR REPORTS

- a. Disaggregated Demand Model Overview – City Staff and Consultant (joining remotely) (60 minutes)
 - i. Task Force Discussion and Input

5. SUBCOMMITTEE REPORTS

6. VOTING ITEMS FROM TASK FORCE

7. FUTURE AGENDA ITEMS

8. ADJOURN

Note: Agenda item sequence and time durations noted above are subject to change.

The City of Austin is committed to compliance with the American with Disabilities Act. Reasonable modifications and equal access to communications will be provided upon request. Meeting locations are planned with wheelchair access. If requiring Sign Language Interpreters or alternative formats, please give notice at least 2 days (48 hours) before the meeting date. Please call Austin Integrated Water Resource Planning Community Task Force, at 512-972-0194, for additional information; TTY users route through Relay Texas at 711.

For more information on the Austin Integrated Water Resource Planning Community Task Force, please contact Marisa Flores Gonzalez at 512-972-0194.

MINUTES



The Austin Integrated Water Resource Planning Community Task Force convened in a regular meeting on December 6, 2016 at 625 East 10th Street, Room 104, in Austin, Texas.

Members in Attendance:

Sharlene Leurig - Chair
Clint Dawson

Diane Kennedy
Sarah Richards

Bill Moriarty
Lauren Ross

Ex-Officio Members in Attendance:

Greg Meszaros, Mike Personett, Lucia Athens, Kathleen Garrett

Staff in Attendance:

Kevin Critendon, Daryl Slusher, Teresa Lutes, Joe Smith, Marisa Flores Gonzalez, Mark Jordan, Chris Chen, Liz Johnson, Ginny Guerrero, Jeff Fox, Heather Cooke, Katherine Jashinski

Additional Attendees:

Katharine Hayhoe, Richard Hoffpauir, Ron Anderson, Leonard Oliver, Mary Ann Neely, Craig Smith, John Burke, Bill Bunch

1. CALL TO ORDER

Sharlene Leurig, Chair, called the meeting to order at 6:06 p.m.

2. CITIZEN COMMUNICATION: GENERAL

3. APPROVAL OF MEETING MINUTES

The meeting minutes from the October 4, 2016 Austin Integrated Water Resource Planning Community Task Force regular meeting were approved on Member Richard's motion and Member Dawson's second on a 5-0-1-5 vote with Member Moriarty abstaining and Members Zerrenner, Walker, Bartee, Dwight, and Lorenz absent.

4. STAFF BRIEFINGS, PRESENTATIONS, AND/OR REPORTS

- a. Draft Climate Change and Hydrology Analysis Results presentation was provided by Katherine Hayhoe, Ph.D., ATMOS Research. This briefing was followed by a Task Force discussion including questions and answers.

5. SUBCOMMITTEE REPORTS

- a. Written Public Outreach and Code Subcommittee Reports were provided in Task Force Member Packets.

6. VOTING ITEMS FROM TASK FORCE

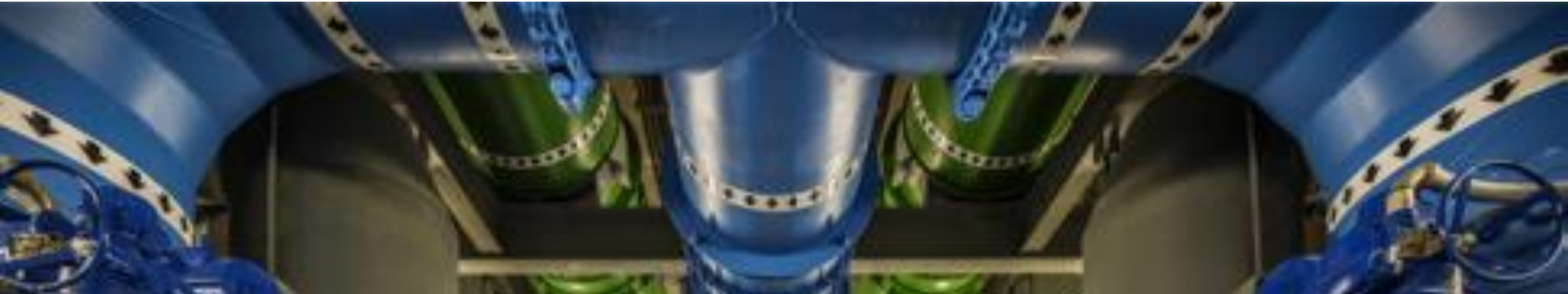
- a. The proposed 2017 Task Force meeting schedule was approved on Member Moriarty's motion and Member Dawson's second on a 6-0-0-5 vote with Members Zerrenner, Walker, Bartee, Dwight, and Lorenz absent.

10. FUTURE AGENDA ITEMS

None

Chair Leurig adjourned the meeting at 7:59 pm.

PRESENTATION



Disaggregated Demand Model

December 13, 2016

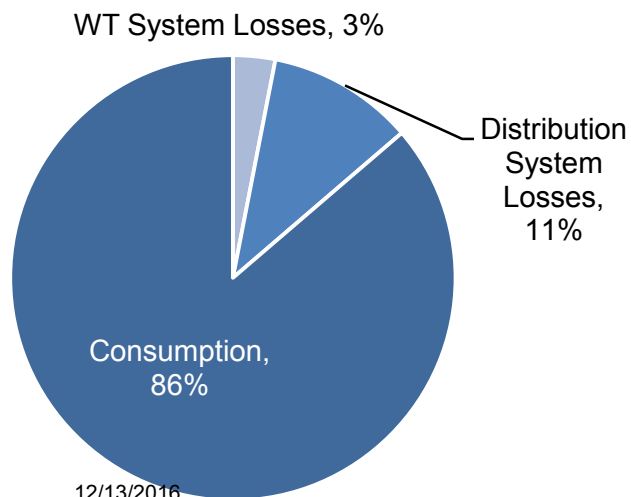
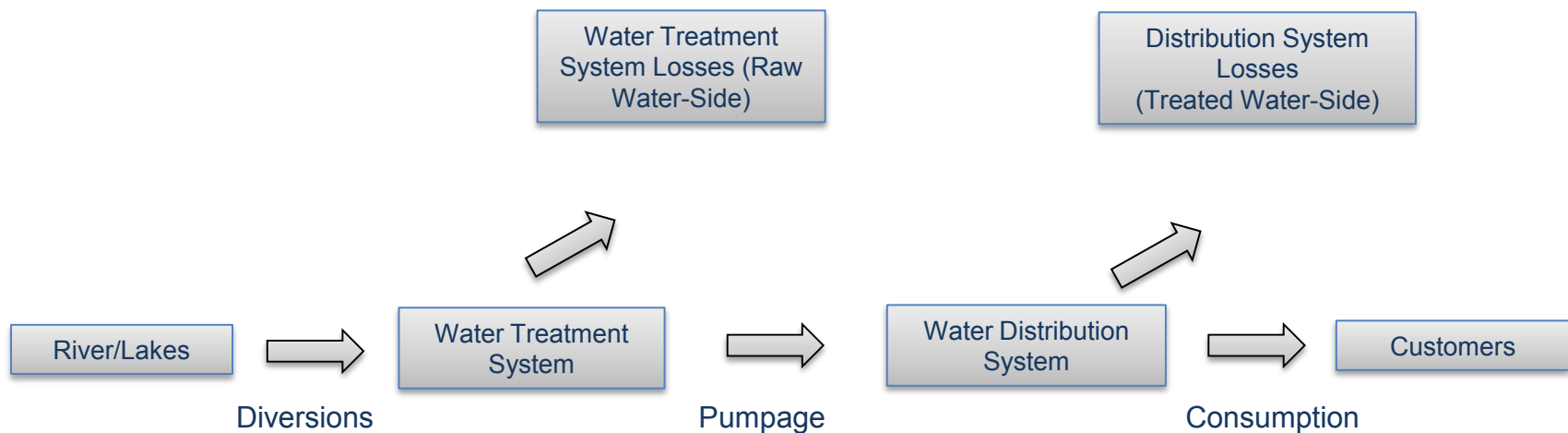


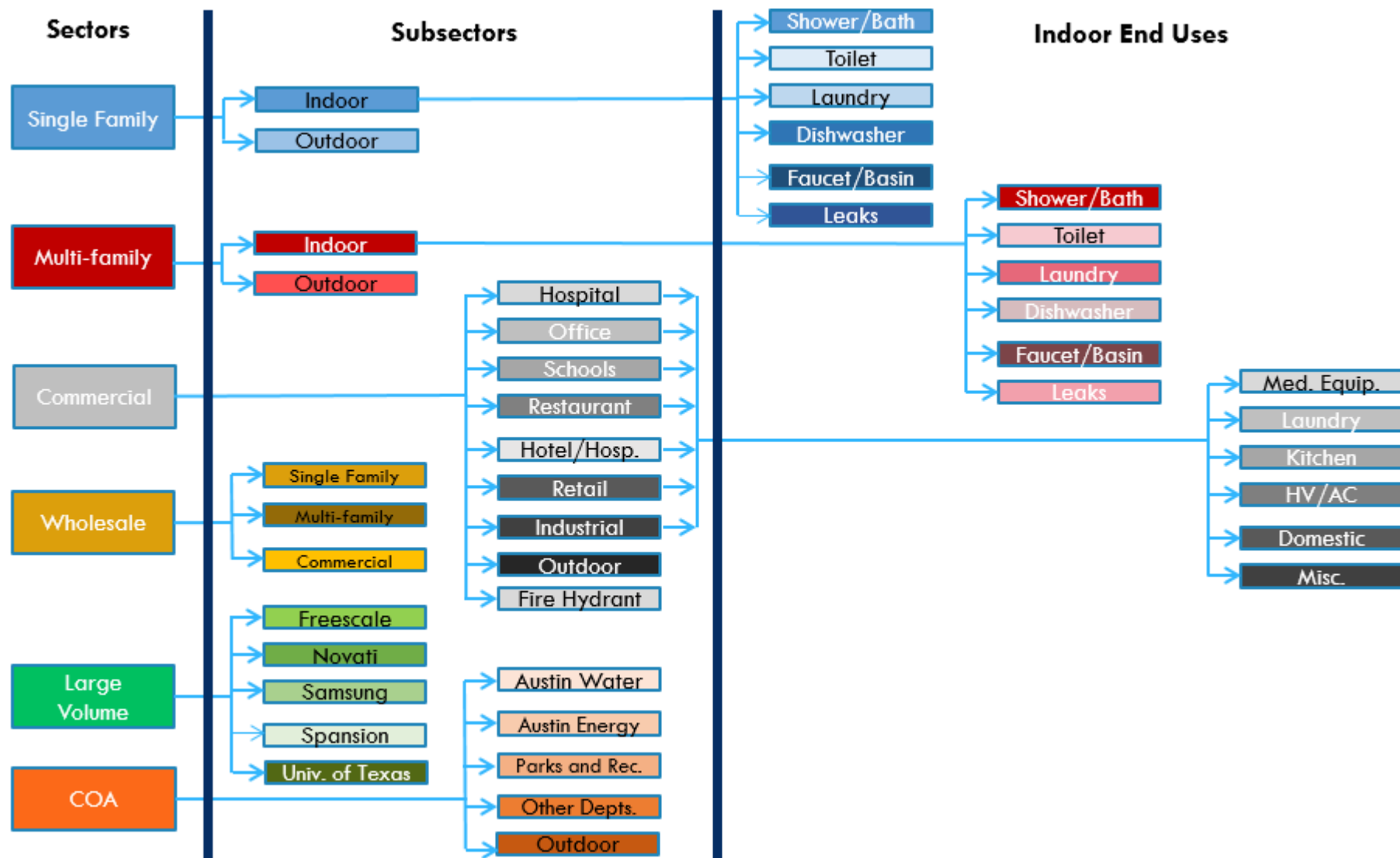
Outline

- What does the model do?
- How does the model work?
- Preliminary results from the model
- How will the model be used?
- Next steps

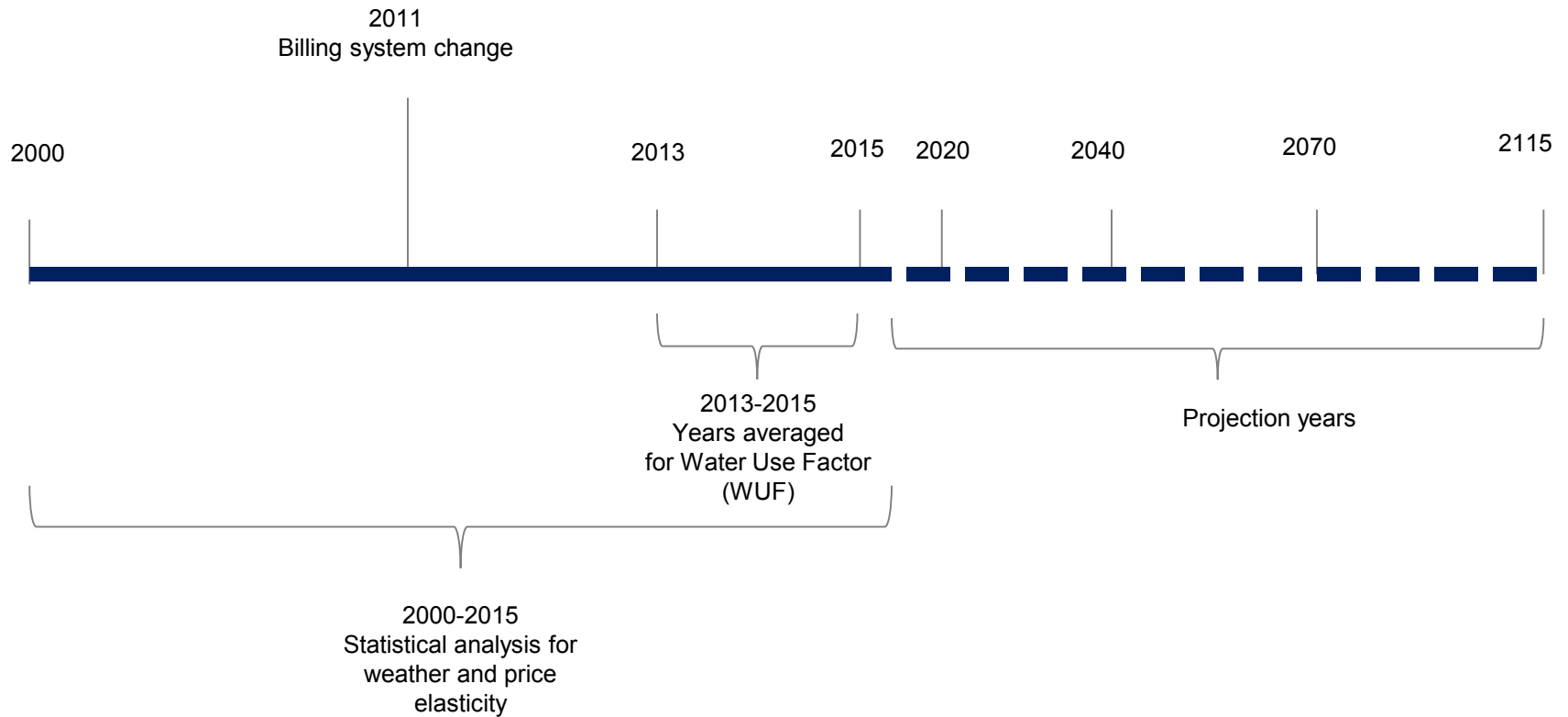
What Does The Model Do?






Typical Water-Flow In Austin's Water System

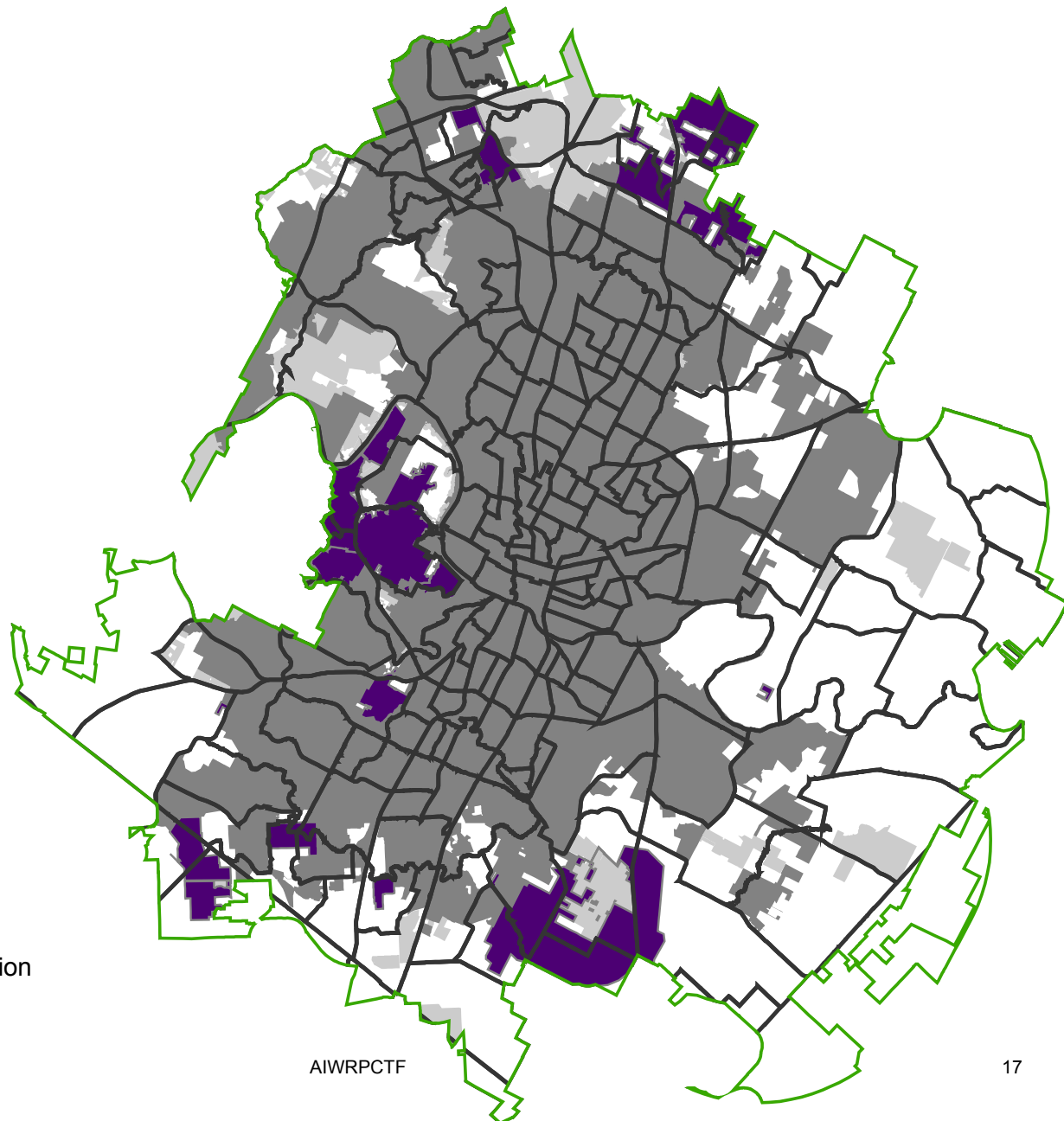




Analysis Timeline

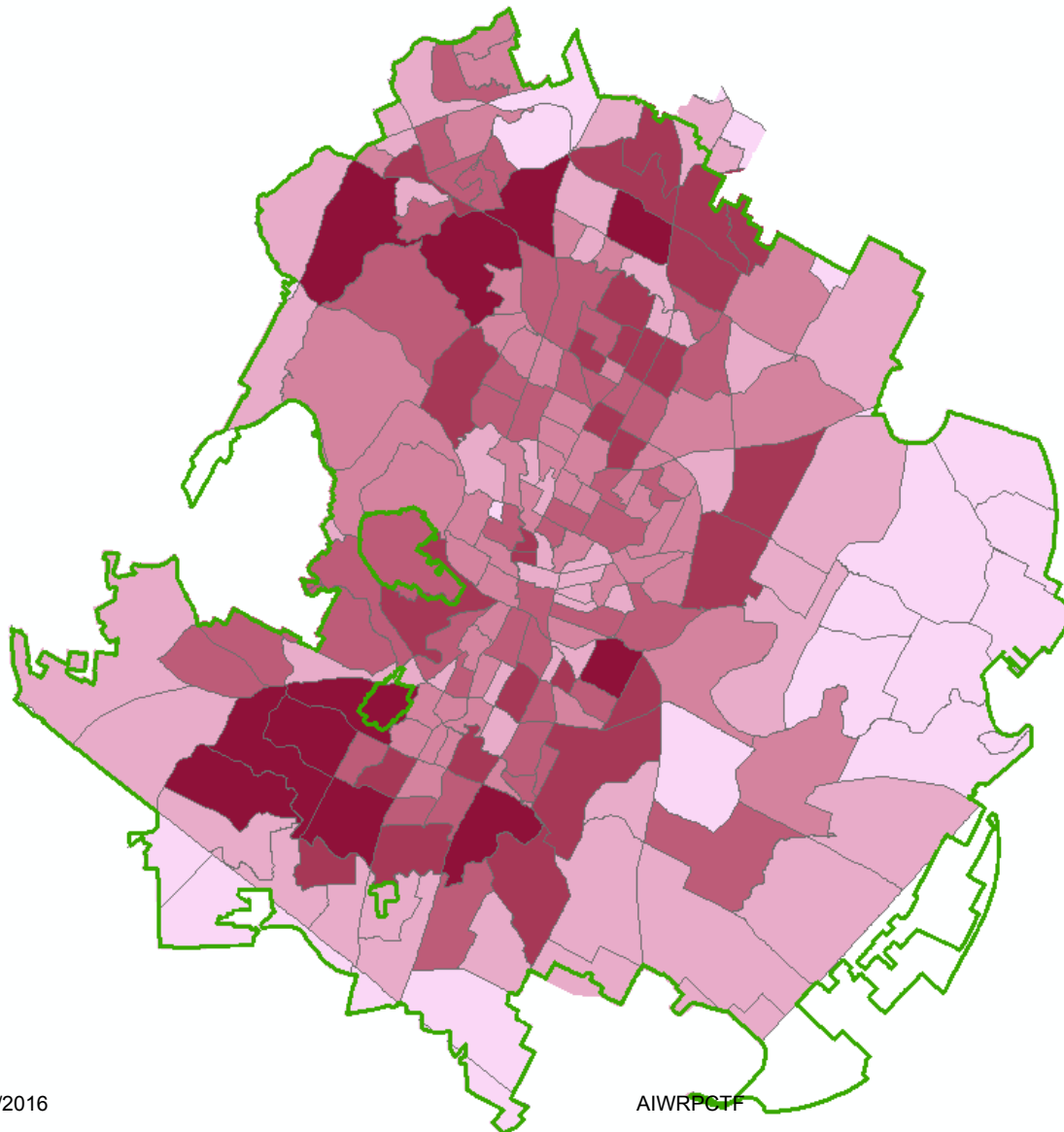


-  DTI polygons
-  Impact fee boundary
-  Austin full purpose jurisdiction
-  Austin limited purpose jurisdiction
-  Wholesale service areas

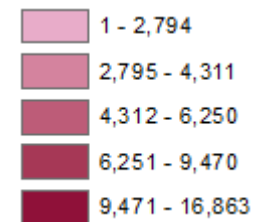


How Does The Model Work?

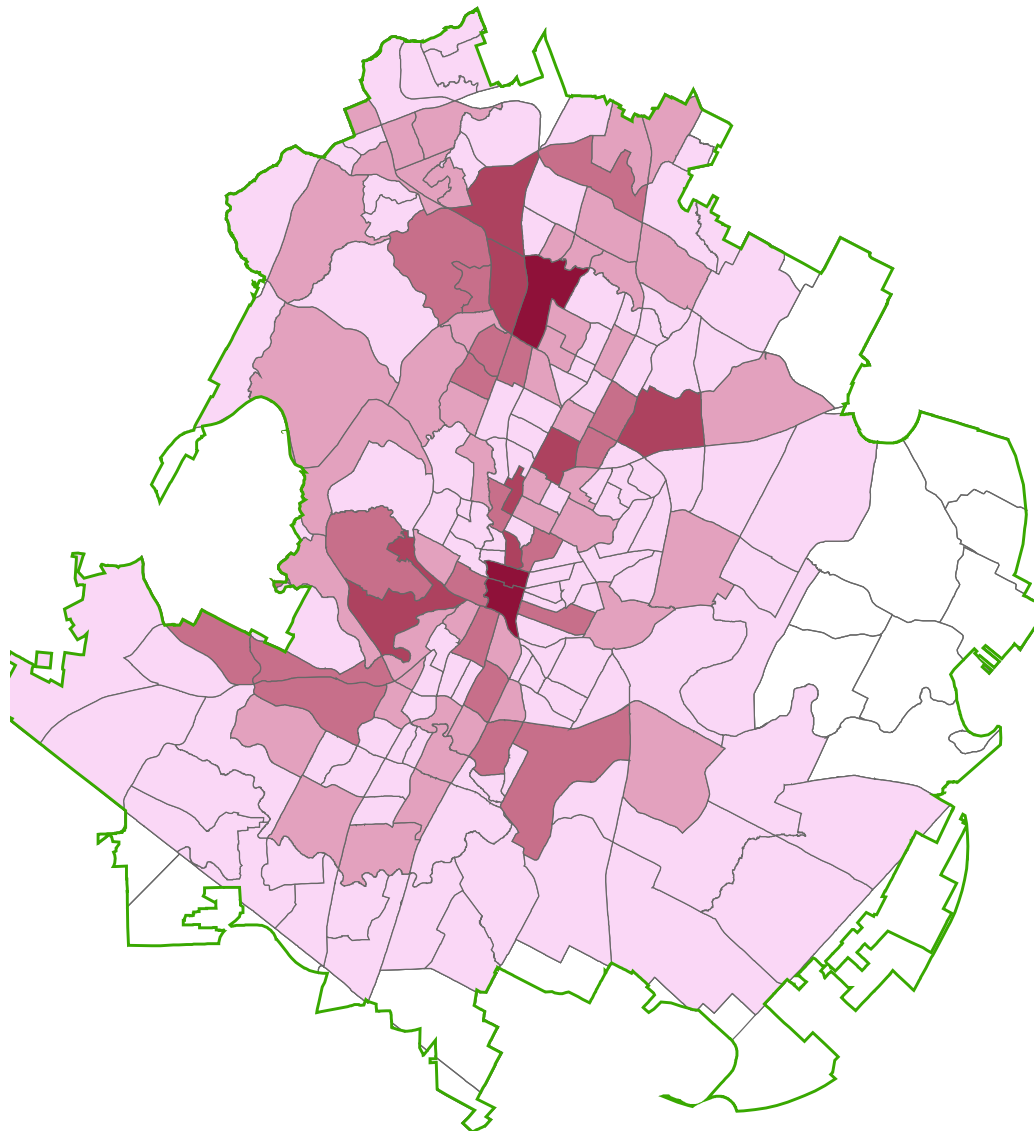
Served Population Distribution 2010



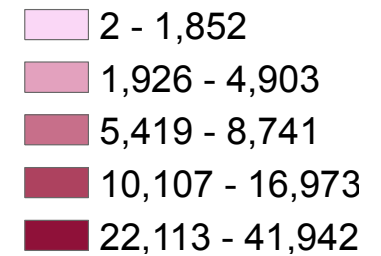
2010 Served Population

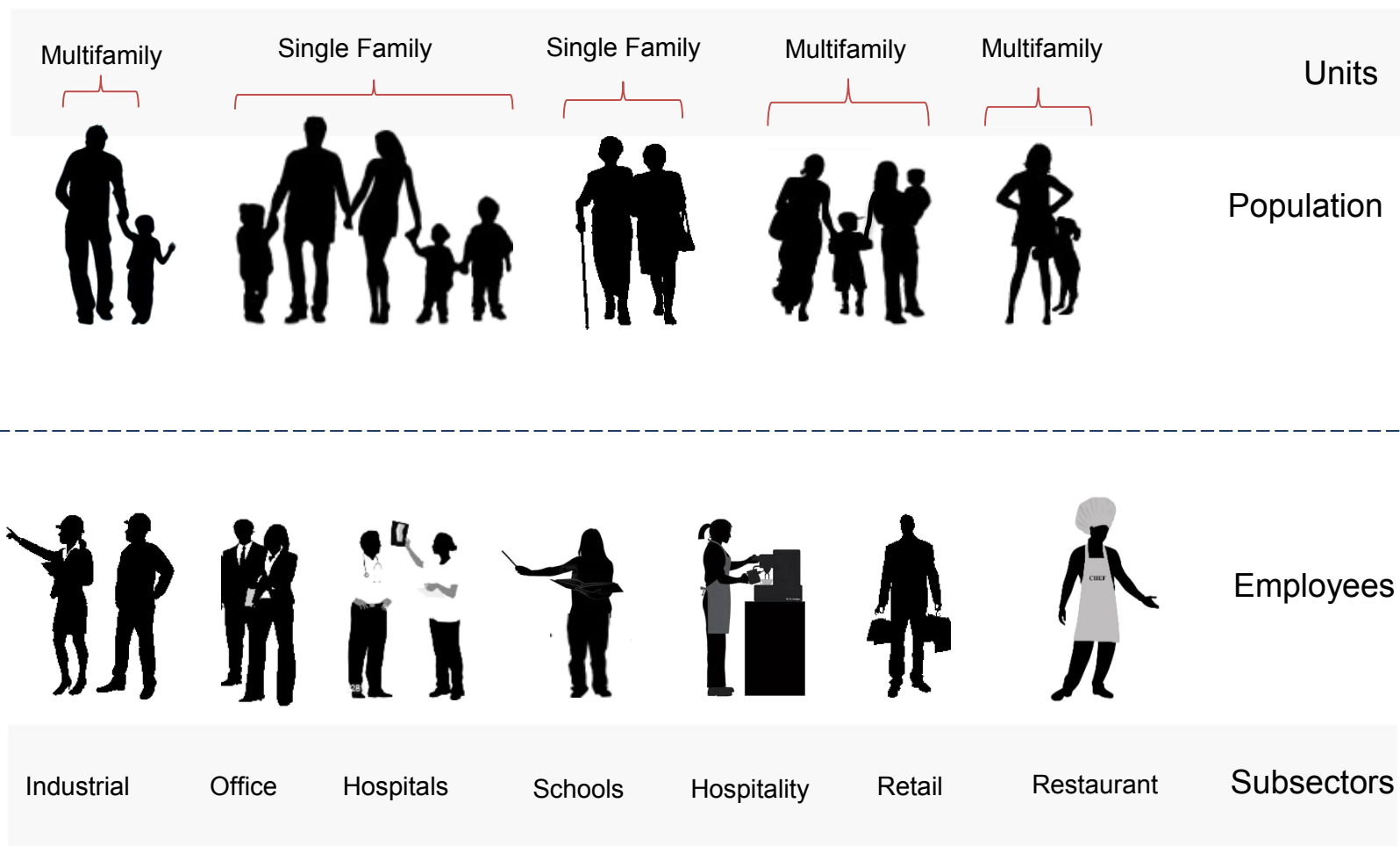


Employment Distribution 2010



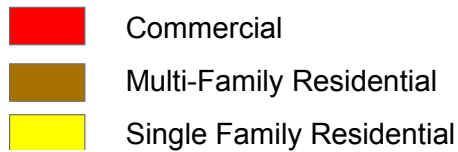
2010 Employment





Water Use Factor Development

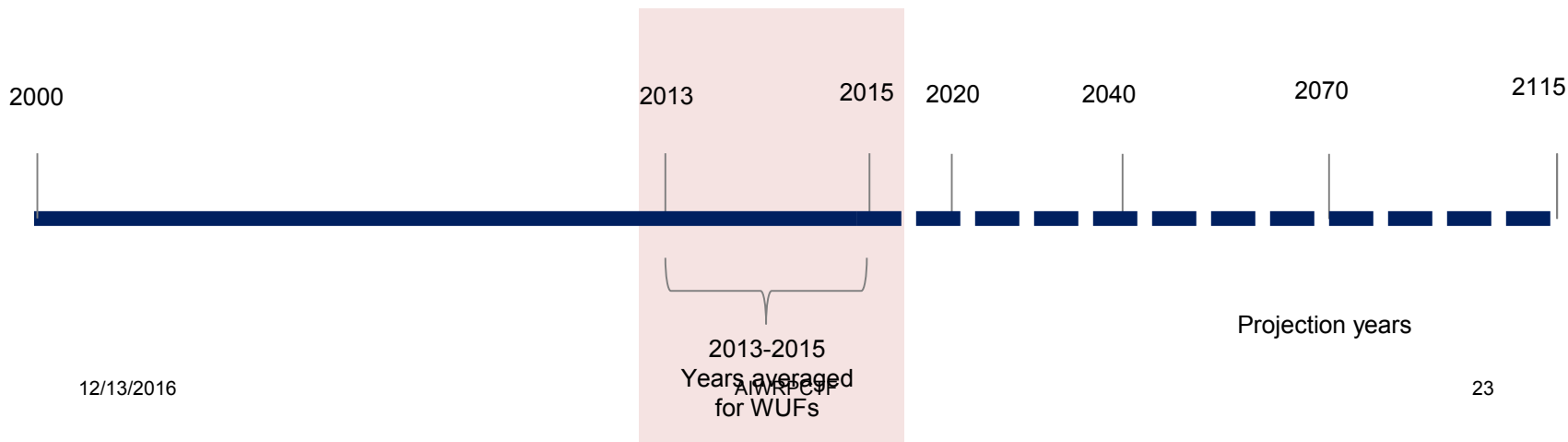
Eg: DTI polygon 89

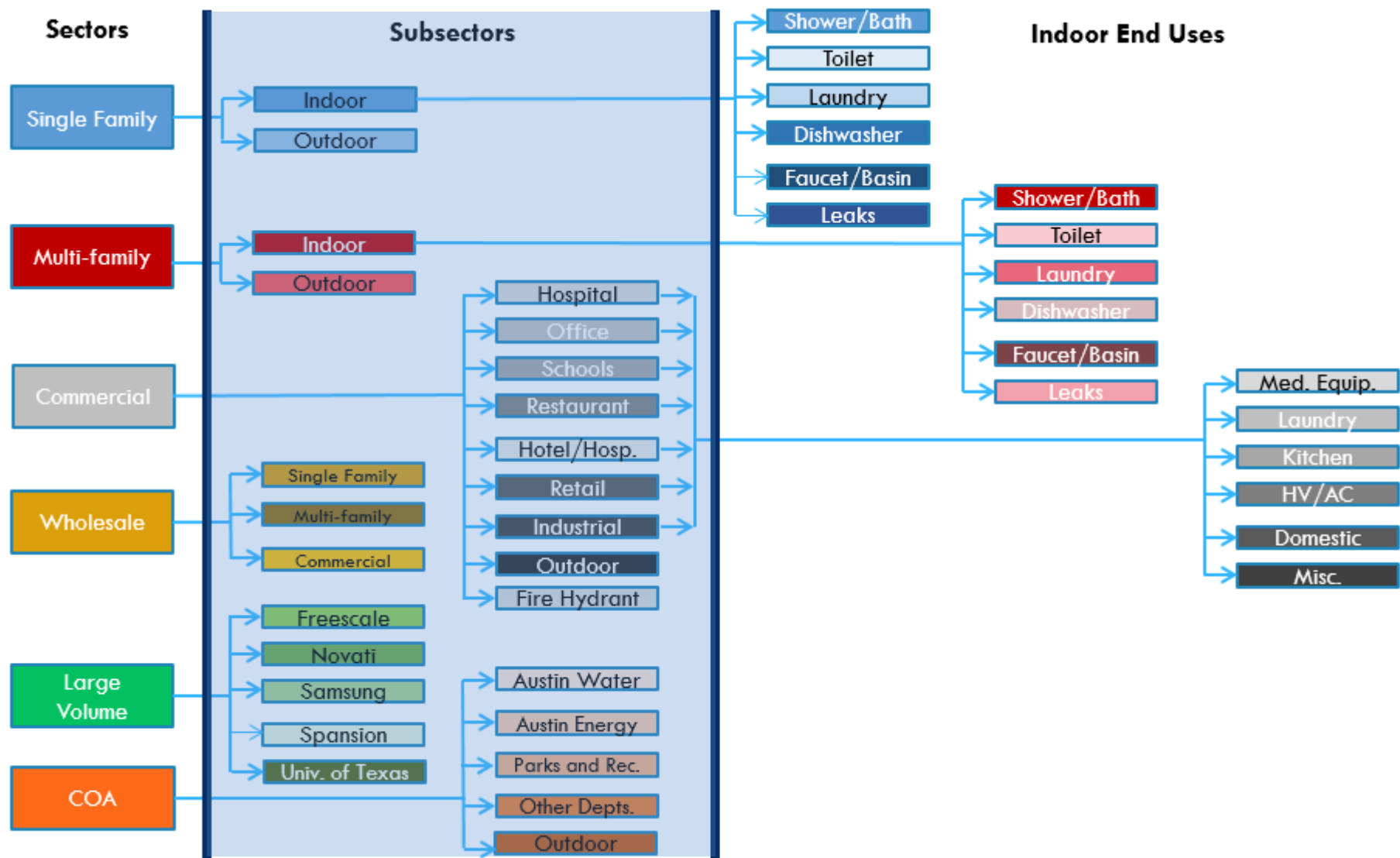


Water Use Factor (WUF) Calculation

Example of WUF calculation for
Single Family Residential

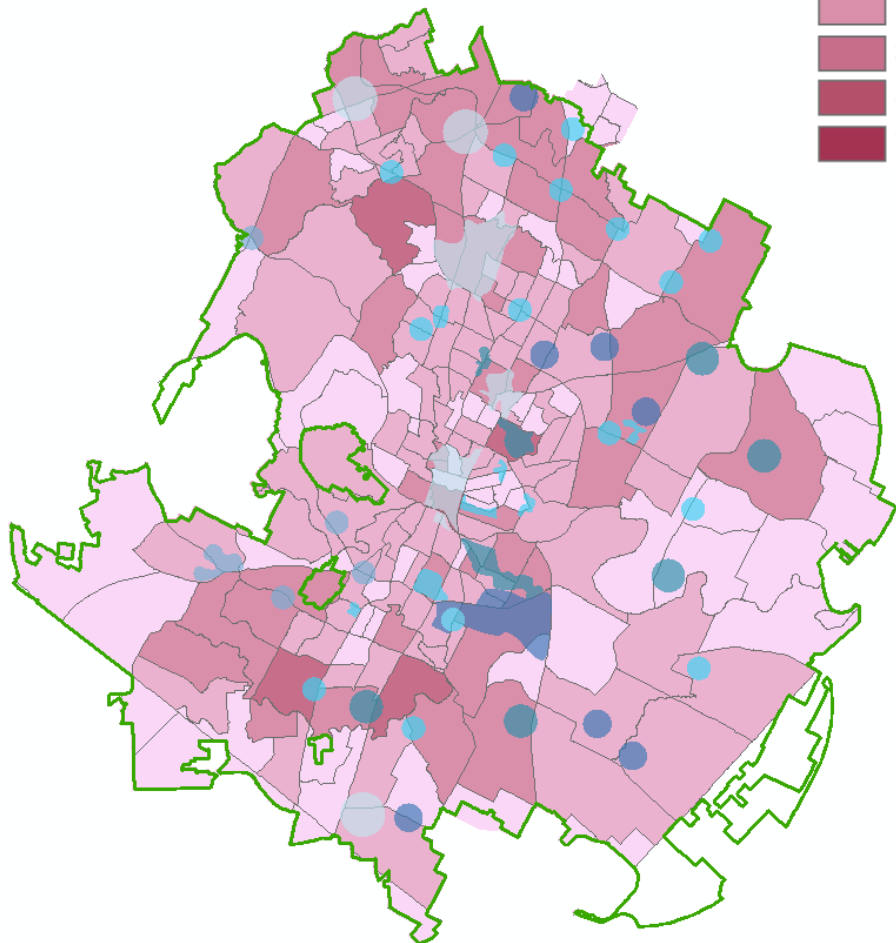
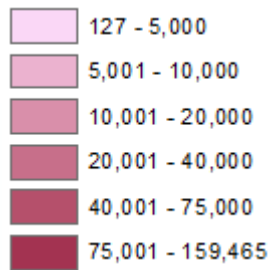
$$\frac{\text{SF Billed Volume (gal)}}{\text{Number of SF units}} = \text{SF Water Use Factor (WUF)}$$





Served Population Projections

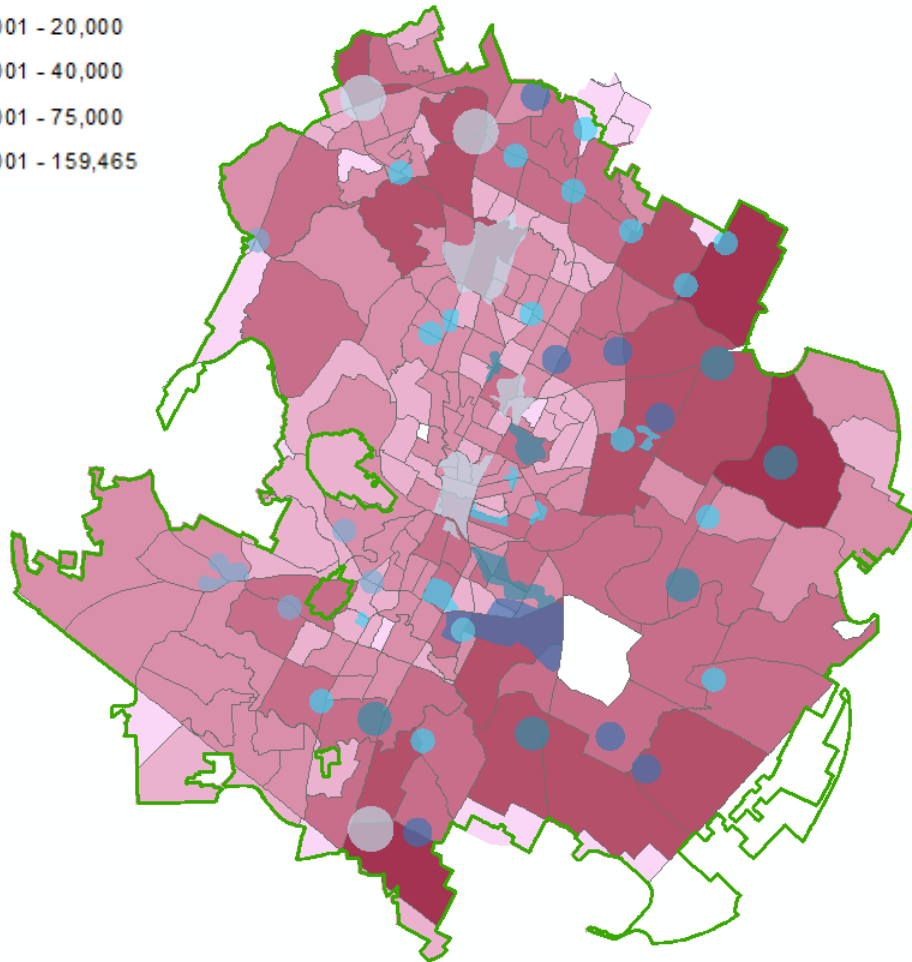
Served Population



12/13/2016

2040

AIWRPCTF

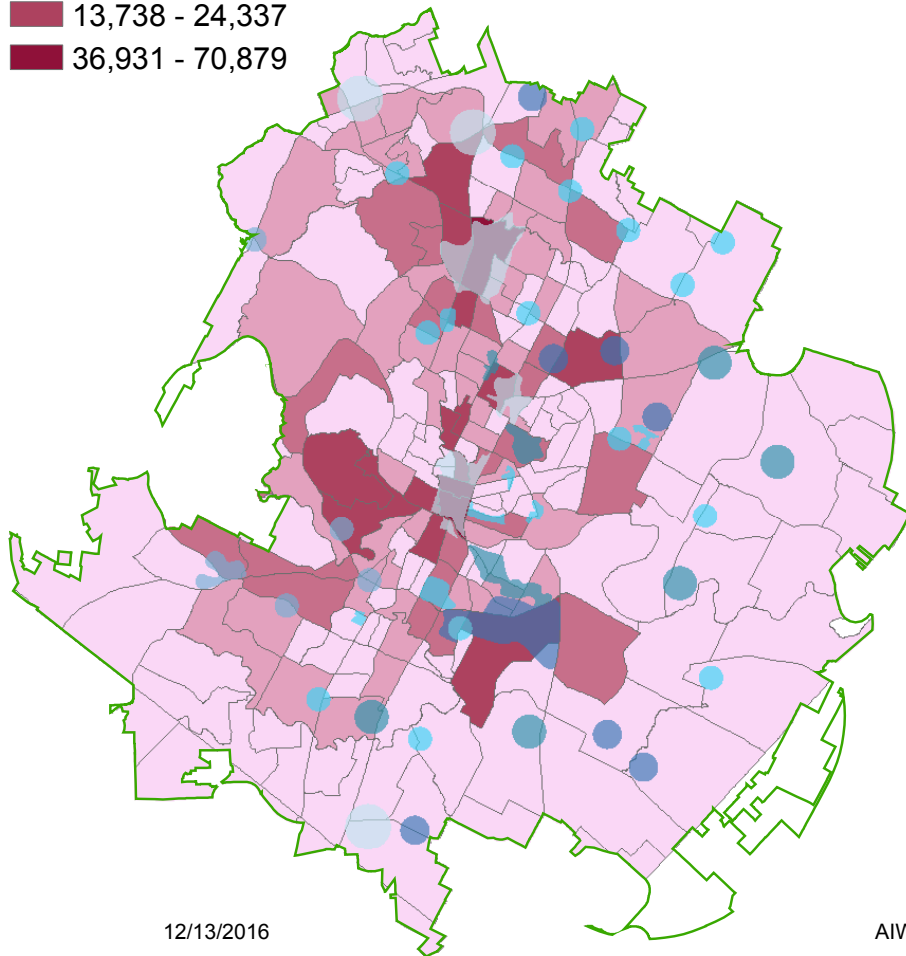
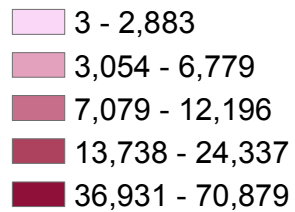


2115

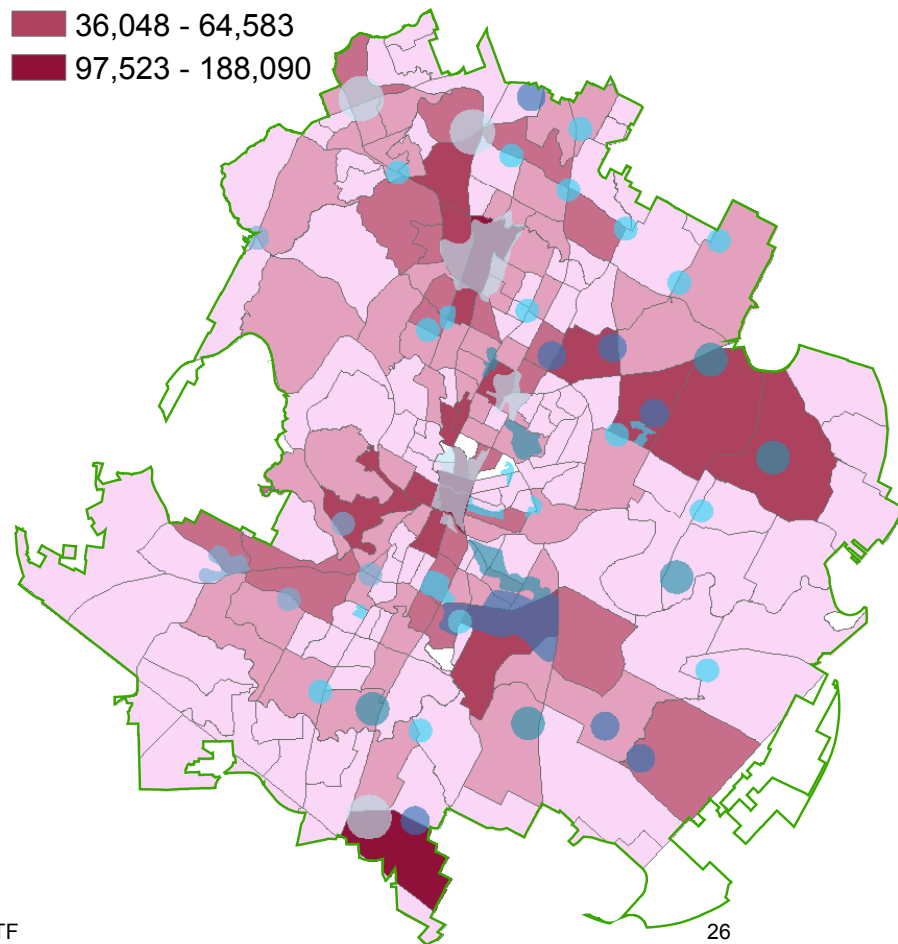
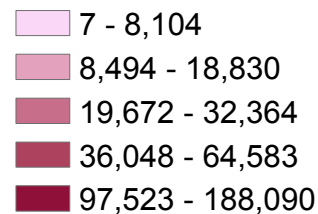
25

Employment Projections for 2040 and 2115

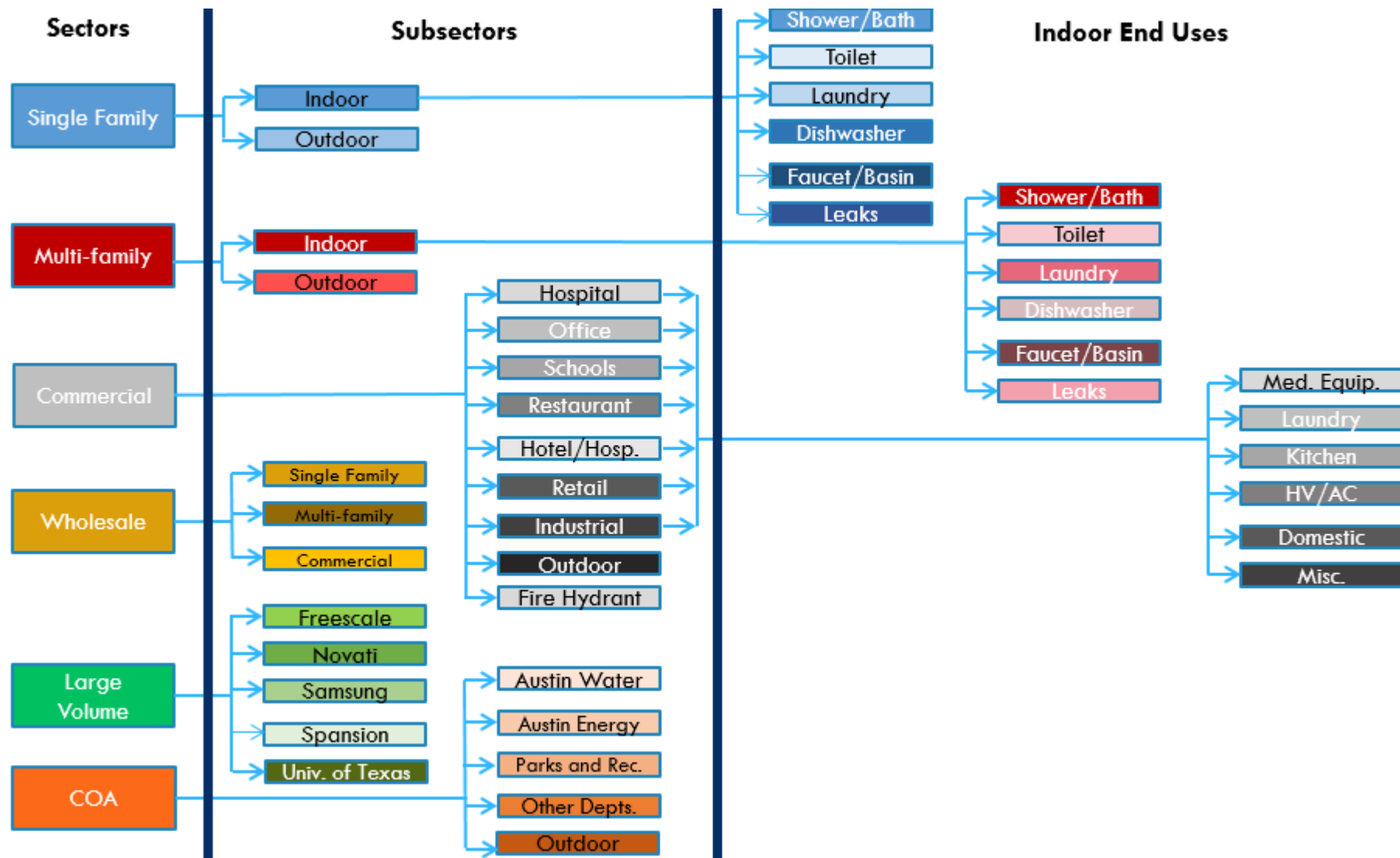
2040 Employment



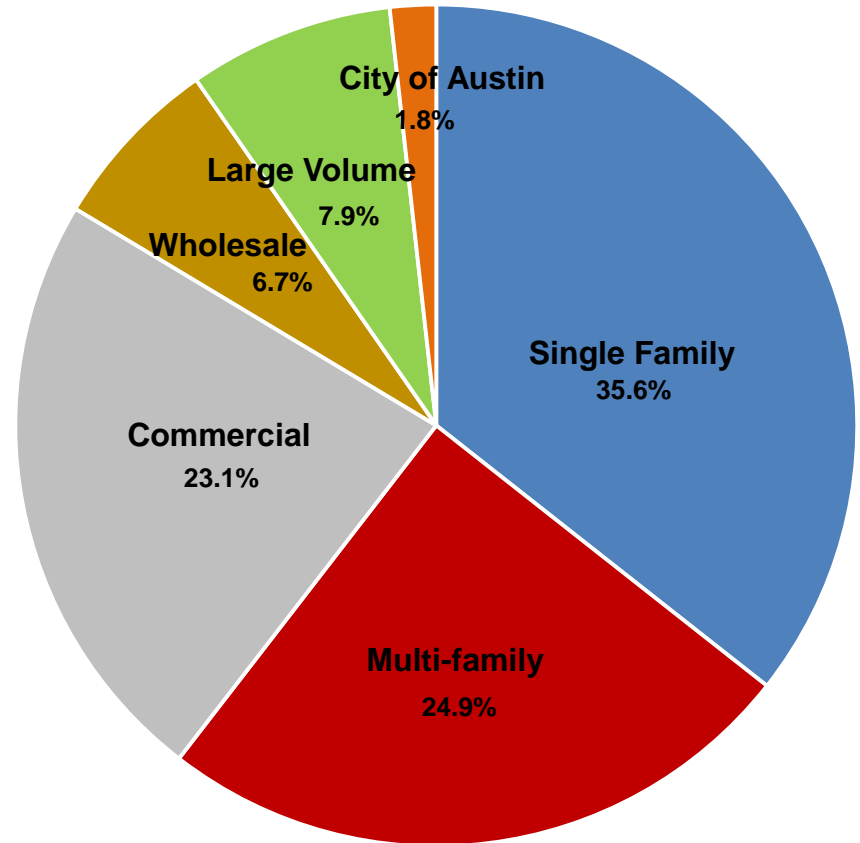
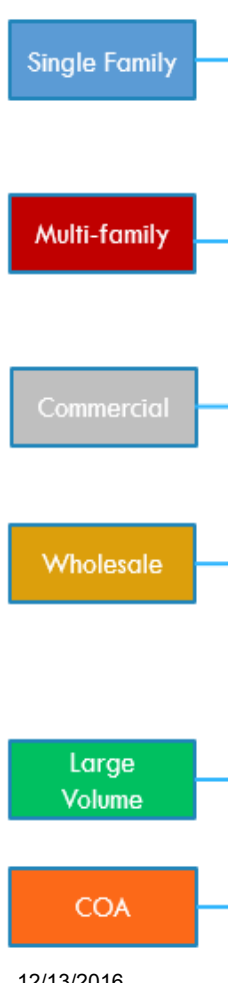
2115 Employment



Preliminary Results From the Model



Base Year Consumption Sectors



Base Year Consumption Subsectors

